3. External sufficient standard citation		
ACGIH TLV for radiofrequency/microwave radiation		
		•
. Is the level of risk associated with the issue(s) consistent		YES NO
nanagement performance goals assuming compliance with the non-statutory) external standard?		
non-statutory) external standard?	If no continue; other	rwise skip to 1
0. Is an internal standard required to attain a level of risk c	onsistent with	YES NO
nanagement performance goals?		<u> </u>
1. Describe nature and status of internal sufficient standard	d.	
	•	
2. Describe how the levels of risk and cost are consistent v	vith management nerfo	rmanco goale
The requirements cited in #3 above are based on ANSI C95.1-1966. Depend	lencies on wavelength, orie	ntation, modulation.
resence of ground planes, and electrical shock potential were poorly undersi	tood and not accounted for.	Fermilab has
een following the standard in #8 and this has resulted in levels of ES&H and	cost performance that are	consistent with
nanagement goals including the use of industrial standards for industrial issu hocks and provide a safety factor of at least ten for reasonably well understo	ues. They are sufficient to p	prevent electrical
frects.	oo minor transient Eivi raqi	ation (benaviorial)
3. Pick the basic implementing assumption from the list. \square $^{ m N}$	lajor positive impact 🔲 Mi	nor negative impac
□ M	linor positive impact 🛮 🎞 Ma	ajor negative impac
<u>I⊠ N</u>	o net impact	
4 Describe the matrix and status of timely a title to		
4. Describe the nature and status of implementation includ		
Ve believe we are currently in compliance with the standard cited in #8 above rogram is both successful and cost-effective.	e. Experience has demonst	rated that this
Togram to both buoocostal and cost-sticture.		

If yes, continue; otherwise skip to 10.

	leave/s)		Issue	origin	☑ Hazard analysis ☐	Identification Team
1.	Issue(s)					
	. NIR - ultraviole					
149	. I nermai - uitra	violet radiation / sun exposure				
1						
<u> </u>		· · · · · · · · · · · · · · · · · · ·			······································	
1	Focus group	☐ Emergency Management	Fire Protection	_	☑ Occupational Safe	etv
				Oversial	ht Radiation Protection	
			···· <u> </u>			
_	la thana a ma	anness of and and which a				
2.	is there a ne	cessary standard which a	pplies to this is	ssue?		YES INO
				lf	yes, continue; othe	rwise skip to 6.
						·
3.	Necessary s	tandard(s)				
29 (CFR 1910 133(a)	(5) (Eye and face protection)				
		rt I Appendix B (PPE)				
		(Welding, cutting, brazing)				
		(1) (Eye and face protection)				
		(Ventilation and protection in we	elding, cutting, braz	rina)		
		,	g,g,	3/		
		M				
Л	Are there any	aspects of these necess	ory standard(a)	which	de not add volve?	CIVED MINO
4.	Are there any	aspects of these necess	ary stanuaru(s)			YES NO
				i	f yes, continue; othe	erwise skip to 6.
5.	Description of	of non-value added aspect	ts of necessary	stand	ard(s).	
						ł
						1
						1
						İ
6.	is the level of	of risk associated with the	issuels) consi	stent u	ith management	
		is assuming compliance v				YES X NO
P-011	goa	- accaming compilation v	applicable		-	
					If no continue; othe	rwise skip to 12.
7.	Is there a no	n-required external standa	rd which applie	s to th	is issue?	M VES TINO

CGIH TLV for ultraviolet radiation	
. Is the level of risk associated with the issue(s) consistent with nanagement performance goals assuming compliance with the above non-statutory) external standard?	ME YES □ NO
0. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?	YES NO
1. Describe nature and status of internal sufficient standard.	
2. Describe how the levels of risk and cost are consistent with management per the requirements cited in #3 above provide adequate protection against ultraviolet radiation encounters and cutting operations. Compliant welding safety practices have been in place at Fermilab and beyed, have acceptably prevented the occurrence of harmful ultraviolet exposure effects. Since explain the contraction of the properties of operations (UV lamps for the contraction of the properties of operations), the requirements are not sufficient to preclude possible adverse effects. The civities are addressed by the standard cited in #8 above. Past adherance to the these standard has S&H and cost performance that are consistent with management goals including the use of industrial dustrial issues.	ered in electric metal I, except when not posure to incoherent or sterilization or ese remaining s resulted in levels of
3. Pick the basic implementing assumption from the list. ☐ Major positive impact ☐ Minor positive impact ☐ ☑ No net impact	Minor negative impa Major negative impa
4. Describe the nature and status of implementation including cost-effectiveneral tiven that even moderate exposures to sunlight exceed the standard cited in #8 above (~30 minutes and the hazards are well-known and generally-accepted by most people, it is assumed that the exposonsidered as guides, rather than absolute limits for typical sunlight exposures. In fact, the cited sta	at mid-day in summe sure limits can be

caveat, Fermilab is currently in compliance with the standards cited in #3 and #8. Experience has demonstrated that this

program is both successful and cost-effective.

If yes, continue; otherwise skip to 10.

1.	Issue(s)		Issue	origin	Hazard analysi	s 🔲 Identif	fication Team
		and a limited to the		<u></u>			
	. ODH - cryogeni . ODH - cryogeni	c gas or liquid leaks					
		argon or other detector gas					!
	. ODH - leak of si						
		- quench effects					
المحاد	. Magnotto notae	quonon enocio					ŀ
L							
ا	Focus group	☐ Emergency Management ☐ Fire Pro			Occupationa		
		☐ Environmental Protection ☐ Manage	ement & o	Oversigh	nt 🔲 Radiation Pro	otection	
2.	Is there a ne	cessary standard which applies to	this is	sue?			YES X NO
				lf	yes, continue;		
					, 00, 00, 11, 11, 10, 11, 11, 11, 11, 11,		· ·
3.	Necessary s	tandard(s)					
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							<u> </u>
<u> </u>							
4.	Are there any	aspects of these necessary stand	dard(s)	which	do not add valu	ue? 🔲	YES NO
				li	f yes, continue;	otherwise	skip to 6.
							•
5.	Description of	f non-value added aspects of ne	cessarv	stand	lard(s).		
		•					
						•	
l							
	•						
Щ	······						
6.	is the level o	f risk associated with the issue(s)) consid	stent w	vith management	·	
		s assuming compliance with appl					YES 🔀 NO
F					-		okin to to
					If no continue;	omerwise	skip to 12.
7.	Is there a no	n-required external standard which	applies	s to th	nis issue?		YES 🛛 NO

8. External sufficient standard citation	
O to the level of rick appointed with the inque/o) consistent with	
9. Is the level of risk associated with the issue(s) consistent with management performance goals assuming compliance with the above	YES NO
(non-statutory) external standard?	erwise skip to 12.
	•
10. Is an internal standard required to attain a level of risk consistent with	MAYER EINO
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
Fermilab ES&H Manual chapter 5064, Oxygen Deficiency Hazard, has been in force for over 15 years.	t was developed to
specifically address the ODH hazards at Fermilab and to minimize the potential risks.	
12. Describe how the levels of risk and cost are consistent with management perfe	
Past adherance to the internal standard in #11 has resulted in levels of ES&H and cost performance that management goals. There have been very few, if any, injuries or illnesses stemming from activities falling	
of Fermilab's ODH program since its initiation.	ig under the scope
·	
13. Pick the basic implementing assumption from the list. Major positive impact	linor negative impact
☐ Minor positive impact ☐ M	lajor negative impact
⊠ No net impact	
14. Describe the nature and status of implementation including cost-effectiveness	.
This program is fully implemented, works well, and is a cost effective program. It is assumed that ODH	
ES&H issue associated with "magnetic fields - quench effects." Experience has demonstrated that this	
successful and cost-effective.	

_		Issue origin ☐ Hazard analysis 🗷 Identification Team
1.	Issue(s)	
105	B. ODH - mech	anical refrigeration systems
		·
		·
ı	Focus group	☐ Emergency Management ☐ Fire Protection ☐ Occupational Safety
		☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
2.	Is there a ne	ecessary standard which applies to this issue?
		If yes, continue; otherwise skip to 6.
3.	Necessary s	standard(s)
"	- Treeessary c	nanaara(5)
1		
		•
4.	Are there any	y aspects of these necessary standard(s) which do not add value?
		If yes, continue; otherwise skip to 6.
5.	Description (of non-value added aspects of necessary standard(s).
		of risk associated with the issue(s) consistent with management
perf	ormance goa	Is assuming compliance with applicable necessary standards?
		If no continue; otherwise skip to 12.
7.	is there a no	on-required external standard which applies to this issue? ☑ YES ☐ NO
• •	114	If yes, continue; otherwise skip to 10.
		ii joo, ooniinaa, onioimioo skip to 10.

8. External sufficient standard citation
ASHRAE - 15 - 1989 or later version
9. Is the level of risk associated with the issue(s) consistent with management performance goals assuming compliance with the above
(non-statutory) external standard? If no continue; otherwise skip to
in no continue, otherwise skip to
10. Is an internal standard required to attain a level of risk consistent with
management performance goals?
11. Describe nature and status of internal sufficient standard. Fermilab ES&H Manual Chapter 5035, Mechanical Refrigeration Systems, incorporates the above mentioned standard. The
chapter effectively references the ASHRAE standard.
40. Describe how the levels of risk and seet are consistent with management newfarment water
12. Describe how the levels of risk and cost are consistent with management performance goals. Past adherance to the internal standard in #11 (based on the external standard in #8) has resulted in levels of ES&H and
cost performance that are consistent with management goals including the use of industrial standards for industrial issues
13. Pick the basic implementing assumption from the list. Major positive impact Minor negative impa
☐ Minor positive impact ☐ Major negative impa
☑ No net impact
14. Describe the nature and status of implementation including cost-effectiveness.
Adoption of the national standard in #11 (based on the external standard in #8) has made it easier to design and evaluate
mechanical refrigeration rooms. Experience has demonstrated that this program is both successful and cost-effective.
·

	issue origin M Hazard analysis I	Ido-Richard - T
1. Issue(s)	Issue origin 🔀 Hazard analysis 🔲	identification Leam
106. Other mechanic	cal hazards - general environmental control	
<u> </u>		
Focus group	☐ Emergency Management ☐ Fire Protection ☐ Occupational Safe	tv
	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
2. Is there a nec	cessary standard which applies to this issue?	YES NO
	If yes, continue; other	<u> </u>
	ii yoo, oonunuo, onto	wise skip to 0.
3. Necessary st	andard(s)	
29 CFR 1910.94		
29 CFR 1910.95		
29 CFR 1910.96 29 CFR 1910.97		
29 CFR 1910.57		,
29 CFR 1926.51		
29 CFR 1910.52		
29 CFR 1910.55 29 CFR 1926.56		
29 CFR 1926.57		
29 CFR 1926.59		
29 CFR 1910 Subpart	J	
4. Are there any	aspects of these necessary standard(s) which do not add value?	YES NO
•	If yes, continue; other	
	, ,	
5. Description of	f non-value added aspects of necessary standard(s).	
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		j
		İ
6 le the level of	f winter annual state of with the factor (-) and the state of the stat	
6. Is the level of performance goals	f risk associated with the issue(s) consistent with management s assuming compliance with applicable necessary standards?	YES NO
F-110111100 Bodie	If no continue; other	
	ii no continue; otner	wise skip to 12.
7 1. 1		
7. Is there a nor	required external standard which applies to this issue?	☐ YES ☐ NO
	If yes, continue; other	wise skip to 10.

8. External sufficient standard citation	
·	
9. Is the level of risk associated with the issue(s) consistent with	
management performance goals assuming compliance with the above	YES NO
(non-statutory) external standard? If no continue; other	erwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	YES NO
management performance goals?	<u> </u>
11. Describe nature and status of internal sufficient standard.	
	•
12. Describe how the levels of risk and cost are consistent with management performance to the statutory requirements in #3 has resulted in levels of ES&H and cost performance.	ormance goals.
with management goals including the use of industrial standards for industrial issues.	o that are consistent
	=
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	•
13. Pick the basic implementing assumption from the list. ☐ Major positive impact ☐ M ☐ Minor positive impact ☐ M	linor negative impact
✓ No net impact	iajoi negative impact
14. Describe the nature and status of implementation including cost-effectiveness	5.
Experience has demonstrated that this program is both successful and cost-effective.	
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					leeue	origin	IO Hoze	ard analys	. Dia		
1.	lssue(s)				13300	Origin	I laza	iru anaiys	is 🗀 ide	nuncatio	n ream
107	7. Other mechani	cal hazards - n	nachine guardin	ng							
	4										
L			·								
	Focus group	☐ Emergence	y Management	☐ Fire P	rotection		S Oc	cupationa	l Safety		
			ental Protection			Oversigl	ht □ Ra	diation Pro	otection		
										·	
2.	Is there a ne	ecessary sta	ndard which	applies t	o this is	ssue?			li	X YES	□NO
							Ves c	ontinue;			
							,00,0	Jimao,	Othici Wi	ac akih	10 0.
3.	Necessary s	tandard(s)									
29	CFR 1910 Subpai	rt O				-					
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4.	Are there any	/ aspects of	these neces	earv eta:	ndard(e)	which	do not	add val			MINO
•	,	, aspesto of	mede medec	Joury Star	iluai u(s)			ontinue;		☐ YES	
						•	, yes, e	ondinae,	Official	ise skit	, 10 6.
5.	Description of	of non-value	added aspe	ects of n	ecesary	etand	ard(e)				
	,				-	Stand	aru(s).				
											- [
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						•					
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1	-										
6.	Is the level of	of risk assoc	iated with the	he issue(s) consi	stent w	rith man	agement	· F] YES	NO
per	formance goal	s assuming	compliance	with app	plicable				Ę		
						I	If no co	ontinue;	otherwis	se skip	to 12.
7.	Is there a no	n-required e	xternal stand	lard whic	h applie	s to th	is issue	?		YES	□ NO I
						lf	yes, co	ntinue; d			

8. External sufficient standard citation									
ANSI B15.1 (Power transmission apparatus)									
ANSI O1.1 (Woodworking machinery) ANSI B11 series (Metalworking - applicable sections)									
ANSI BTT series (Metalworking - applicable sections)									
O to the level of risk appointed with the increases consistent with									
9. Is the level of risk associated with the issue(s) consistent with management performance goals assuming compliance with the above									
(non ototutoru) external otondord?	inuo, atherwise akin ta 40								
ii no com	inue; otherwise skip to 12.								
10. Is an internal standard required to attain a level of risk consistent wit	h YES NO								
management performance goals?									
11. Describe nature and status of internal sufficient standard.									
,									
]								
	·								
12. Describe how the levels of risk and cost are consistent with managen									
Past adherance to the statutory requirement in #3 and the external standards in #8 has result									
performance that are consistent with management goals including the use of industrial stand associated program includes annual inventories of machines and an on-going inspection pro-	lards for industrial issues. The								
associated program includes armual inventories of machines and an ori-going inspection pro-	gram to verify compliance.								
	·								
	İ								
	'								
	i								
13. Pick the basic implementing assumption from the list. Major positive im	pact Minor negative impact								
	npact								
■ No net impact									
Ad Beautha the material and attack at the control of the control o									
14. Describe the nature and status of implementation including cost-effe									
Adherence to machine guarding requirements has been well addressed at the Laboratory. The	nrough an on-going process for								
verification all machines have been inspected, and inventoried. Machines built and purchase requirements had guards designed and affixed. Experience has demonstrated that this prog									
requirements had guards designed and anixed. Experience has demonstrated that this prog- cost-effective.	nam is both successful and								

1.	Issue	a/e)						Issue	origin		Hazard	analysis	□lde	ntificatio	n Team
		• •	ical haz	arde - m	achinery	and rota	ting part								
100	o. Ouiei	median	iicai iiaz	aius - III	acilileiy	anu rota	ung pan	.5							
l															
L	· · · · · · · ·													-	
	Focus	group	□ En	nergency	Manage	ment [Fire P	rotection	_		Occup	ational S	Safety		
			LL En	vironme	ntal Prote	ection L	_ Manag	gement &	Oversig	yht	☐ Radial	tion Prote	ection		
2.	is the	ere a n	ecessa	ry stan	dard w	hich ap	plies t	o this is	ssue?				[X YES	□NO
									if	f y	es, cont	inue; o	therwi	se skip	to 6.
3.		ssary		rd(s)											
		10 Subpa													
29 (CFR 191	I0 Subpa I0 Subpa	urt N												
29	OFR 191	10 Subpa 10 Subpa	art P												
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4.	Δre ti	nere an	v asne	ects of	these r	100000	rv etan	dard(e)	which	da	not ad	d volue	a 1	FIVEO	E NO
٦.	AIC II	icic uii	y aspe	icts of	these r	iccessa	ily Stair	iuaiu(s)			es, con				NO 🔀
									•	., у	es, com	illiue, c	,tilei W	ise ski	р ко б.
5.	Descr	intion	of nor	-value	habba	aenect	s of ne	ecessary	ctand	dore	1/0)				
.	D C G O I	iption	01 1101	- value	added	aspecia	5 OI 110	-cessary	Stallu	141	1(5).				
				•											
							.							· 	
6.	is the	level	of risk	assoc	iated wi	ith the	issue(s	s) consi	stent w	vith	manag	ement	=		
per	forman	ce goa	ils ass	uming	complia	ance w	ith apr	licable	necess	sary	y standa	ards?	L] YES	NO 🔀
										lf i	no conti	inue; ot	herwi	se skip	to 12.
														•	
7.	ls the	re a no	n-reau	ired ev	ternal c	standar	d which	h applie	s to th	hie	jeene?		F	VEO.	
					C	- amirauli		· ~bhuc			issue: e contii	nue et		YES	

8. External sufficient standard citation	
ANSI B11 series (Metalworking - applicable portions)	
ANSI B15.1 (Power transmission apparatus) ANSI O1.1 (Woodworking machinery)	
ANSI O1.1 (Woodworking macrimery)	
`	
9. Is the level of risk associated with the issue(s) consistent management performance goals assuming compliance with the	
(non-statutory) external standard?	
Chair Claiman Chairma	If no continue; otherwise skip to 1
10. Is an internal standard required to attain a level of risk co	onsistent with ☐ YES ☐ NO
management performance goals?	<u> </u>
11. Describe nature and status of internal sufficient standard	
The Describe nature and status of internal sufficient standard	ł
	•
40. Describe how the levels of viels and and and any transfer.	In a second
12. Describe how the levels of risk and cost are consistent we Past adherance to the statutory requirements in #3 and the external standards	vith management performance goals.
performance that are consistent with management goals including the use of it	in the rias resulted in levels of ES&H and cos industrial standards for industrial issues. The
associated program includes an on-going inspection program to verify complia	ance.
13. Pick the basic implementing assumption from the list.	ajor positive impact Minor negative impac
	linor positive impact Major negative impac
	o net impact
14 Departing the nature and status of the control o	
14. Describe the nature and status of implementation includi	
Machinery and rotating parts have been well addressed on an continuous basi	is where deficiencies arise. Experience has
demonstrated that this program is both successful and cost-effective.	

		•	_			
4	Issue(s)		Issue	origin	🛮 Hazard analysis 🔲 Id	entification Team
1.						
		cal hazards - medical and first				
plo	od borne pathoge	ns, lead, noise, asbestos, and	respiratory protect	tion		
		•				
<u> </u>						
	Ecous section	T Emorgon at Maranasa				
	Focus group		☐ Fire Protection			
	İ	☐ Environmental Protection	☐ Management &	Oversigh	nt Radiation Protection	
						
2.	is there a nec	essary standard which a	pplies to this is	sue?		X YES NO
		1				
				If	yes, continue; otherw	ise skip to 6.
_						
3.	Necessary st	andard(s)				
29	CFR 1910.151 (me	dical services and first aid)				
		ood borne pathogens)				
	CFR 1910. 1025(j)					1
	CFR 1910.95(g) an					
	CFR 1910.1001(As					1
		10) (Respiratory protection)				
		, (pilately protection)				
						į
			,			
4.	Are there anv	aspects of these necess	ary standard(s)	which	do not add value?	YES NO
-	,		,			
				"	f yes, continue; otherv	vise skip to б.
5.	Description of	non-value added aspec	ts of necessary	stand	ard(s).	
						·
			•			
						.
						ľ
		·				
	ē					
6.	Is the level of	risk associated with the	issue(s) consis	stent w	rith management	M VEO - M NO.
per	formance goals	assuming compliance v	with applicable	necess	ary standards?	YES NO
					If no continue; otherw	isa skin to 12
				'	Johnnue, Juici W	106 SKIP 10 12.
7.	Is there a non	-required external standa	rd which applies	s to th	is issue?	☐ YES ☐ NO
		-			ves. continue: otherwi	

8. External sufficient standard citation		
9. Is the level of risk associated with the issue(s) consiste	ent with	YES NO
management performance goals assuming compliance with (non-statutory) external standard?		
(non-statutory) external standard?	If no continue; other	wise skip to 12.
10. In an internal atondord required to attain a level of vial	s aamaintant vulth	
10. Is an internal standard required to attain a level of risk management performance goals?	Consistent with	☐ YES ☐ NO
11. Describe nature and status of internal sufficient stand	la val	
The Describe nature and status of internal sufficient stand	laru.	
		,
12. Describe how the levels of risk and cost are consisten Past adherance to the statutory requirements in #3 has resulted in levels of		
with management goals including the use of industrial standards for indus	strial standards.	inal are consistent
		·
·		
y		
13. Pick the basic implementing assumption from the list.	Major positive impact	or negative impact
į (🛮 Minor positive impact 🛮 Maj	or negative impact
	No net impact	
14. Describe the nature and status of implementation incl	luding cost-effectiveness	
Implementation is on-going and effective. Personnel are Illinois licensed p		occupational
health. Experience has demonstrated that this program is both successfu		,

		Issue origin Mazard analysis Maldentification Team
1.	lssue(s)	Trazard driarysis Andertuncation realing
10	9B. Surveillance	- tuberculosis
L_		
	Focus group	☐ Emergency Management ☐ Fire Protection ☑ Occupational Safety
		☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
2.	is there a n	ecessary standard which applies to this issue?
		If yes, continue; otherwise skip to 6.
3.	Necessary :	standard(s)
l		
1		
4.	Are there an	y aspects of these necessary standard(s) which do not add value?
		If yes, continue; otherwise skip to 6.
5.	Description	of non-value added aspects of necessary standard(s).
		·
6.	is the level	of risk associated with the issue(s) consistent with management
pe	rformance goa	Is assuming compliance with applicable necessary standards?
		If no continue; otherwise skip to 12.
7.	Is there a no	on-required external standard which applies to this issue?
		If yes, continue; otherwise skip to 10.

8. External sufficient standard citation		
II. Department of Public Health, DuPage County Dept. Public Health. CDC Dec	cember 7,1990	
·		·
9. Is the level of risk associated with the issue(s) consistent	with	
management performance goals assuming compliance with the		X YES NO
(non-statutory) external standard?		otherwise skip to 12.
	ii iio oontiiiue,	Otherwise skip to 12.
40 to an internal atenderal required to attain a lavel of state .		
10. Is an internal standard required to attain a level of risk comanagement performance goals?	onsistent with	YES NO
management performance goals:		
11. Describe nature and status of internal sufficient standard	•	
		·
]
12. Describe how the levels of risk and cost are consistent w	ith management	performance goals.
Past adherance to the standard in #8 has resulted in levels of ES&H and cost	performance that are	consistent with
management goals including the use of industrial standards for industrial stan- the T. B. Mantoux skin tests) is available to our teachers at the Childrens' Cen	dards. Medical surve ter. These individual	eillance (administering
risk of TB exposure due to international nature of children with whom they work	ter. Triese maividual (.	s are at a siightiy higher
13. Pick the basic implementing assumption from the list. \square M	ajor positive impact	☐ Minor negative impact
		☐ Major negative impact
	net impact	
14. Describe the nature and status of implementative to the		
14. Describe the nature and status of implementation includi		
LSS/Medical Department Work Processes include medical surveillance for tube Health Department. Experience has demonstrated that this program is both s	perculosis according to	to DuPage County Public
Troduct Dopartimonic Expendence has demonstrated that this program is both s	iuoocaaiui and cost-6	mective.

1.	Issue(s)	Issue origin ☑ Hazard analysis ☐ Identification Team	ı]
110.		ical hazards - powered platforms	_
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	ocus group	☐ Emergency Management ☐ Fire Protection	_
•	oous group	☐ Emergency Management ☐ Fire Protection ☐ Cocupational Safety ☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	1
			_
2.	is there a ne	ecessary standard which applies to this issue?	7
		E 123 Line	_
		If yes, continue; otherwise skip to 6.	•
3.	Necessary s	standard(s)	
29 C		rt F (Powered Platforms, Manlifts, and Vehicle Mounted Work Platforms)	7
	•	(The state of the	I
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4.	Are there any	y aspects of these necessary standard(s) which do not add value? ☐ YES ☒ NO	_
		If yes, continue; otherwise skip to 6	i.
-	Description a	of man value added accords to	
5.	Description (of non-value added aspects of necessary standard(s).	_
			ı
			l
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6. I	s the level o	of risk associated with the issue(s) consistent with management	7
perf	ormance goal	s assuming compliance with applicable necessary standards?	Ĺ
		If no continue; otherwise skip to 12	<u>)</u>
7. I	s there a no	n-required external standard which applies to this issue?	1
		If yes, continue; otherwise skip to 10	

8. External sufficient standard citation	
<u></u>	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard? If no continue:	otherwise skip to 12
ii no osiminas,	onicialise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	TVEC TINO
management performance goals?	☐ YES ☐ NO
11. Describe nature and status of internal sufficient standard.	
40. Describe how the levels of risk and seek are seek to be	
12. Describe how the levels of risk and cost are consistent with management Past adherance to the statutory requirement in #3 has resulted in levels of ES&H and cost perform	
with management goals including the use of industrial standards for industrial hazards.	
	,
13. Pick the basic implementing assumption from the list. Major positive impact	☐ Minor negative impact☐ Major negative impact☐
☑ No net impact	imajor negative impact
14. Describe the nature and status of implementation including cost-effective Experience has demonstrated that this program is both successful and cost-effective.	ness.
Expendince had demonstrated that this program is both successful and cost-effective.	

1.	Issue(s)			I	ssue origi	in [🛮 Hazard analysi	s 🔀 i	dentification Team
	A. Other mecha	minal hazarde	proceurized to	nka and conta	· ·				
'''	A. Other mecha	anicai nazarus	- pressurized la	ins and conta	uners				
									:
L	Focus group	□ Emergene	y Management	☐ Eiro Brote	notion		M Occurational	0-4-4	
	rocus group					iaht	☑ Occupational ☐ Radiation Pro	Saret ntection	y n
						<u>.g</u>		71001101	<u>'</u>
2.	Is there a ne	ecessary sta	ndard which	applies to 1	this issue?	,			X YES NO
							ves continue.	othor	wise skip to 6.
						•• ;	yes, continue;	otner	wise skip to 6.
3.	Necessary s	standard(s)							
29 (CFR1910.169 (Ai	ir receivers)			······································	<u> </u>			
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							······································		
4.	Are there any	y aspects of	these neces	sary standa	rd(s) which	h d	o not add valu	ıe?	YES NO
						lf	yes, continue;	othe	rwise skip to 6.
5.	Description of	of non-value	added aspe	cts of nece	essary stan	ndaı	rd(s).		
			•	•					1
6.	Is the level o	of risk assoc	iated with th	ie issue(s)	consistent	wit	h management		TIVE PINO
per	ormance goal	ls assuming	compliance	with applic	able neces		ry standards?		YES NO
						lf	no continue;	other	wise skip to 12.
7.	Is there a no	n-required e	xternal stand	ard which a	applies to t	this	issue?		X YES NO
								therv	vise skip to 10.

8. External sufficient standard citation	
ASME Pressure Vessel Code - Section VIII	
	l
	1
9. Is the level of risk associated with the issue(s) consistent with	NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
(non-statutory) external standard? If no continue; otherwise skip to	o 12.
10. Is an internal standard required to attain a level of risk consistent with	<u>.</u>
management performance goals?	NO
11. Describe nature and status of internal sufficient standard. Fermilab ES&H Manual Chapter 5031, Pressure Vessels, has been written and in use for over 15 years. It has effective	
Iminimized personnel exposure and equipment downtime from vessel failures.	^{iy}
Thirdings of potoethier exposure and equipment downtime from vesser railiares.	- 1
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40. Describe have the levels of risk and good are consistent with management restructions and	_
12. Describe how the levels of risk and cost are consistent with management performance goal Past adherance to the internal standard in #11 has resulted in levels of ES&H and cost performance that are consistent	
management goals. There is a provision in 5031 that allows an exemption by the Director if certain portions of the Code	WILLI
requirements are not able to be met. This provision is important in our research environment and must be maintained in	
order for our mission to be met. The statutory requirement in #3 is limited to air compressors and is based on the 1968	
edition of the standard in #8. Since Fermilab has a wider variety of vessels and gases to contend with, the standard in	f8 is
a much better and up to date "fit."	ŀ
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<u> </u>	
13. Pick the basic implementing assumption from the list. ☐ Major positive impact ☐ Minor negative im☐ Minor positive impact ☐ Major negative im	pact
☑ Millor positive impact ☑ Major negative im	pacu
14. Describe the nature and status of implementation including cost-effectiveness.	
The internal standards identified in #11 (based on the external standard in #8) have proven to be both successful and	
cost-effective.	
	i

1. Issue(s)	Issue origin 🛮 Hazard analysis 🔻 Identification Team
111B. Other mechanical hazards - pressuriz	ed lines and piping systems
•	,

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	ment
LI Environmental Prote	ection
2. Is there a necessary standard when	nich applies to this issue?
	If yes, continue; otherwise skip to 6.
3. Necessary standard(s)	
29 CFR1910.169 (Air receivers)	
	1
	į
	•
4. Are there any aspects of these n	necessary standard(s) which do not add value?
	If yes, continue; otherwise skip to 6.
5. Description of non-value added	aspects of necessary standard(s).
6. Is the level of risk associated wi	th the issue(s) consistent with management
	ance with applicable necessary standards?
	If no continue; otherwise skip to 12.
	• • •
7. Is there a non-required external s	standard which applies to this issue?
a non-required external s	
	If yes, continue; otherwise skip to 10.

8. External sufficient standard citation	
ASME/ANSI B31.1	
ASME/ANSI B31.3	Ī
ASME/ANSI B31.5	
ASME/ANSI B31.8	
9. Is the level of risk associated with the issue(s) consistent with	X YES NO
management performance goals assuming compliance with the above	/e
(non-statutory) external standard?	o continue; otherwise skip to 12.
10. Is an internal standard required to attain a level of risk consist	tent with
management performance goals?	¥ YES □ NO
11. Describe nature and status of internal sufficient standard.	
Fermilab ES&H Manual Chapter 5031.1, Pressure Piping Systems, has been written	
effectively minimized personnel exposure and equipment downtime from piping failu	res.
	ļ
·	
	i
12. Describe how the levels of risk and cost are consistent with n	nanagement performance goals.
Past adherance to the internal standard in #11 has resulted in levels of ES&H and c	ost performance that are consistent with
management goals. There is a provision in 5031.1 that allows an exemption by the	
requirements are not able to be met. This provision is important in our research envi	
order for our mission to be met. The statutory requirement in #3 is limited to piping for wider variety of piping applications, the standards in #8 are a much better and up to	
white variety or piping applications, the standards in #6 are a much better and up to	date iii.
,	
13. Pick the basic implementing assumption from the list. Major po	ositive impact
13. Fick the basic implementing assumption from the list. [12] Major po	ositive impact Major negative impact
No net i	
14. Describe the nature and status of implementation including c	ost-effectiveness.
	proven to be both successful and
The internal standards identified in #11 (based on the external standards in #8) have cost-effective.	proven to be both successful and
The internal standards identified in #11 (based on the external standards in #8) have	proven to be both successful and
The internal standards identified in #11 (based on the external standards in #8) have	proven to be both successful and
The internal standards identified in #11 (based on the external standards in #8) have	proven to be both successful and

If yes, continue; otherwise skip to 10.

1	Issue(s)	Issue origin 🔀 Hazard analysis 🔲 Identifica	ation Team
		nical hazards - material grinding, cutting, and drilling	
' '4	. Ouler mechani	noa nazaros - matenai giniumy, cutting, and uniimy	
	Focus, group	☐ Emergency Management ☐ Fire Protection ☑ Occupational Safety ☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection]
2.	Is there a no	necessary standard which applies to this issue?	S DNO
			S NO
		If yes, continue; otherwise s	кір то 6.
3.	Necessary s	standard(s)	
29	CFR 1910.94		
	CFR 1910.212-2	213	
	CFR 1910.215 CFR 1910.243		
٠ و ا	J. 11 13 10.240		
			}
			1
4.	Are there an	ny aspects of these necessary standard(s) which do not add value?	S 🛮 NO
		If yes, continue; otherwise s	skip to 6.
5.	Description	of non-value added aspects of necessary standard(s).	
		·	
6.	Is the level	of risk associated with the issue(s) consistent with management	C RILUC
per	formance goa	applicable incococcity standards.	S 🔀 NO
		If no continue; otherwise s	kip to 12.
7.	Is there a no	on-required external standard which applies to this issue?	S 🗆 NO

8. External sufficient standard citation	
ANSI O1.1 (Woodworking machinery) ANSI B11.8 (Drilling, milling, and boring machines)	
ANSI B11.9 (Grinding machines)	
	:
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above	MATES LINO
(non-statutory) external standard?	herwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with management performance goals?	☐ YES ☐ NO
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management per	formance goals
Past adherance to the statutory requirements in #3 and the external standards in #8 has resulted in le	vels of ES&H and cost
performance that are consistent with management goals including the use of industrial standards for i	ndustrial hazards.
The associated program includes provision of training and personal protective equipment.	
10 Diele the hoois implementing a second to the control of the hoois impossible imposible imposible impossible	Minor posstive impart
13. Pick the basic implementing assumption from the list. ☐ Major positive impact ☐ Minor positive impact ☐	Major negative impact
No net impact ■ No net impact ■ No net impact ■ No net impact ■ No net impact ■ No net impact No net im	, ,
Describe the nature and status of implementation including cost-effectivenes	2
Grinding outling and drilling is performed frequently through association through the	
	Il protective
equipment made available to all employees, and training by supervision safe work practicies have bee	Il protective
Grinding, cutting, and drilling is performed frequently, through supervision, through the use of personal equipment made available to all employees, and training by supervision safe work practicies have bee Experience has demonstrated that this program is both successful and cost-effective.	Il protective

4	Issue origin ☐ Hazard analysis ☐ Identification Team
1. Issue(s)	
113. Other mechanical hazards (also fire) - means of egress	
Focus group	otection
	ement & Oversight
2. Is there a necessary standard which applies to	this issue?
	If yes, continue; otherwise skip to 6.
3. Necessary standard(s)	
41 IAC - Fire Protection	
100 IAC - Fire Prevention and Safety	
71 IAC - Illinois Accessibility Code Subparts C-F	
29 CFR 1910 Subpart E - Means of Egress	
29 CFR 1910 Subpart L - Fire Protection	
29 CFR 1926 Subpart F - Fire Protection and Prevention	
Uniform Federal Accessibility Standards, Chapter 4, Accessible	e Elements and Spaces: Scope and Technical Requirements
,	
•	
4. Are there any aspects of these necessary stand	dard(s) which do not add value? ☑ YES ☐ NO
	If yes, continue; otherwise skip to 6.
	n you, commue, otherwise skip to 0.
E. Description of non-value added concerts of no	aaaam, ataudaud/a)
5. Description of non-value added aspects of ne	- • • •
Neither 29 CFR 1910 nor Title 41 of the IL Administrative Code	incorporate the current versions of NFPA Standards 101 and
101A which regulate egress provisions. These inflexible, preso superior measures to achieve the ES&H goals in addressing the	riptive versions do not allow alternative, equivalent or
accelerator tunnels where the prescription is not applicable.	in deficiencies which are especially relevant to structures like
accelerator turnicis where the prescription is not applicable.	
6. Is the level of risk associated with the issue(s) consistent with management
performance goals assuming compliance with app	
	If no continue; otherwise skip to 12.
	comman, officially to 12.
	·
Is there a non-required external standard which	applies to this issue? ☑ YES ☐ NO
	If yes, continue; otherwise skip to 10.

8. External sufficient standard citation		
BOCA National Building Code		
BOCA Fire Prevention Code NEDA 101 & 101 A surront additional Code for Sefety to 1 ife from Five in Dividion	and Observed	Ì
NFPA 101 & 101A current editions: Code for Safety to Life from Fire in Building	gs and Structures	
		· · · · · · · · · · · · · · · · · · ·
9. Is the level of risk associated with the issue(s) consistent	with	X YES NO
management performance goals assuming compliance with the	above	MITEO LINO
(non-statutory) external standard?	If no continue; oth	erwise skin to 12
		0.11100 OKIP 10 12.
10. Is an internal standard required to attain a level of risk co	onsistent with	YES NO
management performance goals?		<u> П 120 П 140</u>
44 Passeille meture and status of internal sufficient standard	•	
11. Describe nature and status of internal sufficient standard	•	
12. Describe how the levels of risk and cost are consistent w	ith management perf	ormance goals.
The level of risk is consistent with management performance goals because the	he standards selected are	those applicable to
all public and commercial structures.		
		1
		•
12 Diek the hosis implementing accounts to the W. K.	aior positivo impact	linor nogotive image
13. Pick the basic implementing assumption from the list.	inor positive impact	linor negative impact
	inor positive impact 🔲 N o net impact	ajor negative impact
<u>L 140</u>	o net impact	
14. Describe the nature and status of implementation includi	ng cost-effectiveness) .
Compliance with the statutory prescription of providing a full exit every n-hund	dred feet throughout the h	eam line and
accelerator enclosures would incur a very large cost for no discernible ES&H b	penefit. Since the enclose	ires are not
designed for human occupancy and do not contain significant fire hazards, the	full intent of the standard	is can be met using
measures which provide levels of safety equivalent or superior to those presci	ribed by the dated require	ment citations
,,		
]

If yes, continue; otherwise skip to 10.

1. Issue(s)	Issue origin ☐ Hazard analysis ☐ Identification Team
114. Other mechanical hazards - moving vehicles, carts, and	d forklifts
114. Other mechanical nazards - moving venicies, cars, and	Torking
Focus group	
☐ Environmental Protection ☐ Manag	gement & Oversight
2. Is there a necessary standard which applies to	o this issue?
	If yes, continue; otherwise skip to 6.
3. Necessary standard(s)	
29 CFR 1910 Subpart N	
29 CFR 1910 Subpart F	Ì
•	
	į
4. Are there any aspects of these necessary star	ndard(s) which do not add value?
	If yes, continue; otherwise skip to 6.
5. Description of non-value added aspects of n	ecessary standard(s).
·	
4	
6. Is the level of risk associated with the issue(
performance goals assuming compliance with app	plicable necessary standards?
	If no continue; otherwise skip to 12.
7 le thore a non-required external standard which	h applies to this issue?

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent	with
management performance goals assuming compliance with the	
(non-statutory) external standard?	If no continue; otherwise skip to 12
10. Is an internal standard required to attain a level of risk c	onsistent with
management performance goals?	<u> </u>
11. Describe nature and status of internal sufficient standard	d.
12. Describe how the levels of risk and cost are consistent v Past adherance to the statutory requirements in #3 has resulted in levels of E	with management performance goals.
with management goals including the use of industrial standards for industrial	
•	
•	
	<u> </u>
13. Pick the basic implementing assumption from the list. $\square N$	Major positive impact Minor negative impact
	flinor positive impact □ Major negative impact lo net impact
<u></u>	
14. Describe the nature and status of implementation includ	
Experience has demonstrated that this program is both successful and cost-	effective.

1.	Issue(s)	lssue origin ☑ Hazard analysis 🗖 Iden	tification Team
		nical hazards - special hand tools and power driven nail guns, etc.	
<u> </u>	Focus group	☐ Emergency Management ☐ Fire Protection	
	-jocus group	 ☐ Emergency Management ☐ Fire Protection ☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection 	į
2.	Is there a ne	necessary standard which applies to this issue?	YES NO
		If yes, continue; otherwise	e skip to 6.
3.	Necessary s	standard(s)	
	FR 1910.243		
29 C	FR 1926.302		
	·		İ
4.	Are there any	ny aspects of these necessary standard(s) which do not add value?	YES NO
		If yes, continue; otherwis	
_			
5. —	Description o	of non-value added aspects of necessary standard(s).	
			!
	·		
6.	le the lovel o	of rick accordated with the iccurs(s) consistent with management	
		of risk associated with the issue(s) consistent with management als assuming compliance with applicable necessary standards?	YES NO
	•	If no continue; otherwise	skip to 12.
7.	is there a no		YES NO
		' If yes, continue; otherwise	skip to 10.

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
(non-statutory) external standard? If no continue; other	wise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with	
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
The booting lights and states of internal surface states and	
12. Describe how the levels of risk and cost are consistent with management performance.	mance goals.
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performance with management goals including the use of industrial standards for industrial hazards. The associated p	
provision of training, and eye, head, and face protetion.	rogram includes
	,
13. Pick the basic implementing assumption from the list. Major positive impact Mir Minor positive impact Minor positive impact Majo	ior negative impact jor negative impact
☑ No net impact	
14. Decembe the nature and status of implementation including and effectiveness	
14. Describe the nature and status of implementation including cost-effectiveness. The use of power driven nail guns does not occur on a frequent basis. This type of equipment is usually known as the contract of	ent in secure
tree man are freeze and an employed management and management and all the all admits to the modern's to	COLUI SCUME
locations under the control of supervisors and or competent subcontractors. Implementation of safe wor	k practices is
locations under the control of supervisors and or competent subcontractors. Implementation of safe wor enforced through internal oversight for Laboratory employees, and contractual agreements with subcont	k practices is
locations under the control of supervisors and or competent subcontractors. Implementation of safe wor	k practices is

1.	issue(s)	Issue origin 🛮 Hazard analysis 🔲 Identification Team
116	. Other mechani	cal hazards - work with roads and grounds equipment
ł		3 • • • • • • • • • • • • • • • • • • •
	·	
ı	Focus group	☐ Emergency Management ☐ Fire Protection ☐ Cocupational Safety
•		☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
_	la thava a ma	account at and and subtable and the state of
2.	is there a ne	cessary standard which applies to this issue? ☑ YES ☐ NO
		If yes, continue; otherwise skip to 6.
3.	Necessary s	tandard(s)
29 C	FR 1910.132-13	
29 C	FR 1910.136	
29 C	FR 1910.212	
	FR 1910.215	
	FR 1910.241	
	FR 1910.243-24	
		t C (Roll-over protective structures)
29 C	FR 1928 Subpar	t D (Safety for agricultural equipment)
_		
4.	Are there any	aspects of these necessary standard(s) which do not add value?
		If yes, continue; otherwise skip to 6.
5.	Description of	f non-value added aspects of necessary standard(s).
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		į,
	•	
6.	Is the level o	f risk associated with the issue(s) consistent with management
perf	ormance goal	s assuming compliance with applicable necessary standards?
	•	If no continue; otherwise skip to 12.
		in no continue, otherwise skip to 12.
		\cdot
7.	is there a no	n-required external standard which applies to this issue?
		If yes, continue; otherwise skip to 10.

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above	<u> </u>
(non-statutory) external standard?	herwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with management performance goals?	YES NO
management performance goals:	
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management per	formance goals.
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performan	
with management goals including the use of industrial standards for industrial hazards. These requirer equivalent level of safety as analogous requirements in 29 CFR 1928.	nents provide an
	İ
13. Pick the basic implementing assumption from the list. Major positive impact	Minor negative impact
☐ Minor positive impact ☐ ☑ No net impact	Major negative impact
Rea 140 Hot Impact	
14. Describe the nature and status of implementation including cost-effectivenes	is.
It is assumed that compliance with the requirements given in #3 above are equivalent to those given in	29CFR1928.
Experience has demonstrated that this program is both successful and cost-effective.	
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1.	Issue(s)	Issue	origin	☐ Hazard analysis ☐ Identification Team
	Other personal hazards - confined space			
l''′	. Office personal nazardo de minos opaco			
l				
				
1	Focus group Emergency Management Fire Pro			☑ Occupational Safety
	☐ Environmental Protection ☐ Manage	ement &	Oversigh	nt Radiation Protection
2.	Is there a necessary standard which applies to	this is	ssue?	¥ YES □ NO
			If	yes, continue; otherwise skip to 6.
				. ,
3.	Necessary standard(s)			
29 (CFR 1910.146-147			
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_	A. Alana and analysis of these massacrams store		andala la	do not odd welves.
4.	Are there any aspects of these necessary stand	aara(s)		
			Į1	f yes, continue; otherwise skip to 6.
5.	Description of non-value added aspects of ne	cessary	y stand	ard(s).
				·
6.	Is the level of risk associated with the issue(s			
per	formance goals assuming compliance with app	licable		sary standards:
				If no continue; otherwise skip to 12.
7.	Is there a non-required external standard which	annlie	s to th	is issue?
••	TO MOTO & HOLLTONGHOUS ONCOTHAI OMINAMA WINDIN			yes, continue; otherwise skip to 10.

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with management performance goals assuming compliance with the above	☐ YES ☐ NO
to to an annual standardo	continue; otherwise skip to 12.
10. Is an internal standard required to attain a level of risk consisten	t with
management performance goals?	☐ YES ☐ NO
dd. Danarika waterra and atatres of internal cufficient atandard	
11. Describe nature and status of internal sufficient standard.	
	·
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	•
12. Describe how the levels of risk and cost are consistent with man	agement performance gools
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and	
with management goals including the use of industrial standards for industrial hazards.	
·	
13. Pick the basic implementing assumption from the list. Major posit	ive impact
☐ Minor posit	ive impact
No her line	
14. Describe the nature and status of implementation including cos	t-effectiveness.
Experience has demonstrated that this program is both successful and cost-effective.	

1.	Issue(s)	Issue origin 🔀 Hazard analysis 🔲 Identifica	tion Team
		Landa harada aradina DDF	
		al hazards - hazards requiring PPE	l
126	. Other persona	al hazards - sharp edges	
			i
			ŀ
1	Focus group	☐ Emergency Management ☐ Fire Protection ☑ Occupational Safety	
	Couo. g.oup	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
		- International Processor International Control of Tradition Processor	
2.	is there a ne	ecessary standard which applies to this issue?	S NO
		If yes, continue; otherwise sl	vin to 6
		ii yes, continue, otherwise si	(ip to 6.
_		And devilled	
3.	Necessary s	standard(s)	
29 C	FR 1910 Subpa	art I	
29 C	FR 1926 Subpar	art E	
Oth	er PPE requirem	nents picked up in specfic OSHA standards	ŀ
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	• · · • • · · · · · · · · · · · · · · ·	over a consistency of the company of the desired of the control of	-
4.	Are there any		S 🛛 NO
		If yes, continue; otherwise s	kip to 6.
5.	Description (of non-value added aspects of necessary standard(s).	
5.	Description	of non-value added aspects of necessary standard(s).	
			ı
			- 1
			_ · · ·
l .			
6.		of risk associated with the issue(s) consistent with management	
perf	formance goa	als assuming compliance with applicable necessary standards?	S □ NO
	_	If no continue; otherwise sk	cin to 12
		ii iio oonange, onleiwise se	p 10 12.
7.	Is there a no	on-required external standard which applies to this issue?	S NO
		lf yes, continue; otherwise sk	ι ρ ιο 1 0.

o. Is the level of risk associated with the issue(s) consistent with nanagement performance goals assuming compliance with the above If no continue; otherwise skip to 12 o. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?
nanagement performance goals assuming compliance with the above non-statutory) external standard? Or is an internal standard required to attain a level of risk consistent with nanagement performance goals?
nanagement performance goals assuming compliance with the above non-statutory) external standard? O. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?
nanagement performance goals assuming compliance with the above non-statutory) external standard? O. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?
nanagement performance goals assuming compliance with the above non-statutory) external standard? O. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?
non-statutory) external standard? O. Is an internal standard required to attain a level of risk consistent with NO NO NO NO NO NO NO NO NO NO NO NO NO
0. Is an internal standard required to attain a level of risk consistent with nanagement performance goals?
nanagement performance goals?
nanagement performance goals?
1. Describe nature and status of internal sufficient standard.
2. Describe how the levels of risk and cost are consistent with management performance goals.
ast adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performance that are consistent with management goals including the use of industrial standards for industrial hazards.
3. Pick the basic implementing assumption from the list. Major positive impact Minor negative impact
☐ Minor positive impact ☐ Major negative impact
No net impact No net impact
4. Describe the nature and status of implementation including cost-effectiveness.
xperience has demonstrated that this program is both successful and cost-effective.

1.	Issue(s)			1	Issue	origin	Hazard analy	sis 🔲 ld	entification Team
	Other personal	hazards - high	noise levels						
120	Other percental	· · · · · · · · · · · · · · · · · · ·							
	ocus group	☐ Emergency	Management	☐ Fire Prot	ection		☑ Occupation	al Safety	
	3					Oversigl	ht 🔲 Radiation P		
2.	Is there a ne	cessary star	dard which	applies to	this is	ssue?			X YES NO
						lf	yes, continue	; otherv	vise skip to 6.
3.	Necessary s	tandard(s)							
29 C	FR 1910.95								
								•	
4.	Are there any	aspects of	these neces	sarv stand	ard(s)	which	do not add va	lue?	YES NO
				, ,					wise skip to 6.
							•		•
5.	Description of	of non-value	added aspe	cts of nec	essary	stand	dard(s).		
							,		
L					****				
6.							with manageme		NO VEC FINO
perf	ormance goal	s assuming	compliance	with appli	cable	neces	sary standards		YES NO
							If no continue	; otherv	vise skip to 12.
7.	Is there a no	n-required e	xternal stand	lard which	applie	s to th	nis issue?		YES NO
						lf	yes, continue;	otherw	ise skip to 10.

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	☐ YES ☐ NO
management performance goals assuming compliance with the above	<u> </u>
(non-statutory) external standard?	otherwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with management performance goals?	YES NO
management performance goals?	
11. Describe nature and status of internal sufficient standard.	
	-
40. Describe have the levels of risk and seek are constituted with account.	
12. Describe how the levels of risk and cost are consistent with management Past adherance to the statutory requirement in #3 has resulted in levels of ES&H and cost perform	
with management goals including the use of industrial standards for industrial hazards.	
	_
13. Pick the basic implementing assumption from the list. Major positive impact	☐ Minor negative impact
☐ Minor positive impact ☑ No net impact	iviajor negative impact
14. Describe the nature and status of implementation including cost-effective	ness.
Experience has demonstrated that this program is both successful and cost-effective.	
	i

1.	issue(s)	Issue origin Hazard analysis Identification Team
		nel hazards - housekeeping
'-'	. Other personn	or nazaras mousekeeping
	Focus group	☐ Emergency Management ☐ Fire Protection
,	oodo g.oup	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
		Tradition 1 Total Control
_	la thara a no	acceptive atomical subject on this issue
2.	is there a ne	ecessary standard which applies to this issue?
		If yes, continue; otherwise skip to 6.
		,
3.	Necessary s	standard(s)
	CFR 1926.25	
	CFR 1910.22	
	CFR 1910.106	
	CFR 1910.176	
29 C	CFR 1910.141	
	·	
4.	Are there an	y aspects of these necessary standard(s) which do not add value?
••	Allo tholo un	If yes, continue; otherwise skip to 6.
		ii yes, continue, otherwise skip to 6.
_		
5. ——	Description	of non-value added aspects of necessary standard(s).
6.	is the level	of risk associated with the issue(s) consistent with management
		Is assuming compliance with applicable necessary standards?
'		and accounting temphanics with approache mescacity standards:
		If no continue; otherwise skip to 12.
7.	is there a no	on-required external standard which applies to this issue?
		If yes, continue; otherwise skip to 10.